

Claims

[1] A multi-functional traffic signal stick comprising:
a grip part (10) having a plurality of supporting rod grooves (17) formed on the outer circumferential surface thereof at regular intervals;
a switch part (11) mounted on and electrically connected to the grip part (10) for allowing for selection of a signal generating function and a flash light function;
a power supply part (12) disposed inside the grip part (10) and connected to the switch part, the power supply part containing a battery therein;
a circuit board (13) installed at an upper portion of the inside of the grip part for controlling power-off and emission of a red signal LED part (14) and a white signal LED part (15) in response to a signal generated from the switch part (11);
a length-adjustable flashing tube (20) connected to the grip part in such a manner as to be telescoped or stretched in an antenna type; and
a plurality of supporting rods (16) pivotally mounted at a lower end portion of the grip part so as to be fit into the supporting rod grooves (17) of the grip part (10) when being folded.

[2] A multi-functional traffic signal stick according to claim 1, wherein a reflection plate (18) is mounted at a lower portion of the white signal LED part (15).

[3] A multi-functional traffic signal stick according to claim 2, wherein the white signal LED part (15) is mounted at the central portion of the upper surface of the grip part, and the red signal LED part (14) is mounted around the white signal LED part (15).

[4] A multi-functional traffic signal stick according to claim 3, wherein the switch part (11) turns off the power supply part (12) when the switch part is maintained at its top surface horizontally, allows the red signal LED part to be operated to serve as a signal light when the switch part is pressed at its top surface to the left, and allows the white signal LED part to be operated to serve as a flash light when the switch part is pressed at its top surface to the right.

[5] A multi-functional traffic signal stick according to claim 4, wherein the supporting rods (16) are inserted into the supporting rod grooves (17) formed on the grip part (10), and serves as a tripod when they are unfolded so as to support the multi-functional traffic signal stick.

[6] A multi-functional traffic signal stick according to claim 5, wherein the grip part (10) includes a charging part and a charging connector contained therein instead of the power supply part (12) for electrically charging the charging part through a battery of a car or other external power source.

[7] A multi-functional traffic signal stick according to any one of claims 1 to 6,

wherein a diffusion mirror is mounted on the upper end portion of the length-adjustable flashing tube above the white signal LED part (15) for diffusing light.

[8] A multi-functional traffic signal stick comprising:

- a grip part (10) having a plurality of supporting rod grooves (17) formed on the outer circumferential surface thereof at regular intervals;
- a switch part (11) mounted on and electrically connected to the grip part (10) for allowing for selection of a signal generating function and a flash light function;
- a power supply part (12) disposed inside the grip part (10) and connected to the switch part, the power supply part containing a battery therein;
- a circuit board (13) installed at an upper portion of the inside of the grip part for controlling power-off and emission of a red signal LED part (14) and a white signal LED part (15) in response to a signal generated from the switch part (11);
- a length-adjustable flashing tube (20) connected to the grip part in such a manner as to be telescoped or stretched in an antenna type;
- a plurality of supporting rods (16) pivotally mounted at a lower end portion of the grip part so as to be fit into the supporting rod grooves (17) of the grip part (10) when being folded;
- a white signal LED part (15) mounted at the center of the front end portion of the length-adjustable flashing tube (20);
- a flexible wire of a coil type or a straight type for connecting the white signal LED part to the power supply part (12); and
- a plurality of red LEDs (22) mounted on the flexible wire in such a manner as to spaced apart from one another at regular intervals.

[9] A multi-functional traffic signal stick according to claim 8, wherein a diffusion mirror is mounted on the upper end portion of the length-adjustable flashing tube above the white signal LED part (15) for diffusing light.